

# MACPRO PLUS<sup>TM</sup>

## USER'S GUIDE

---



## MacPro Plus - TrakPro Registration Card

To help us better understand your needs, please complete and return this registration card today. Your registration is also needed to receive future product update information.

Name: \_\_\_\_\_ Keyboard Purchased: \_\_\_\_\_  
Company: \_\_\_\_\_ Keyboard Serial # (S/N): \_\_\_\_\_  
Title: \_\_\_\_\_ Dealer Purchased From: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_ Dealer Address: \_\_\_\_\_  
Phone: (    ) \_\_\_\_\_  
Purchase Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Mo Day Year  
Signature: \_\_\_\_\_ Dealer Phone: (    ) \_\_\_\_\_  
Price Paid: \_\_\_\_\_

Which Keyboard did you purchase?

☐ MacPro Plus ☐ TrakPro

This product was purchased to be used where?

☐ Business ☐ Education ☐ Home

If you checked BUSINESS above, what is the estimated annual revenue of your company:

☐ Under \$1 Million ☐ \$10-50 Million  
☐ \$1-10 Million ☐ Over \$50 Million

Check the TWO (2) most important factors influencing your selection of this keyboard:

☐ Recommendation by Dealer ☐ Trackball  
☐ Recommendation by Friend ☐ Key Feel  
☐ Key Tronic Name ☐ Price  
☐ Magazine Review ☐ Key Layout  
☐ RJ-11 Compatibility ☐ Product  
☐ ADB Compatibility ☐ Features  
☐ Other: \_\_\_\_\_

(Specify)

Check the TWO (2) keyboard features most important to you:

☐ Pleasing Key Feel ☐ Appearance  
☐ Cursor Pad Layout ☐ Key Sound  
☐ LED On/Off Indicators ☐ Key Layout  
☐ Numeric Pad Layout ☐ Large Delete  
☐ Sturdiness ☐ & Return Key  
☐ Other: \_\_\_\_\_

(Specify)

How did you first learn about this product?

☐ Magazine Ad ☐ Trade Show  
☐ Magazine Review ☐ Dealer  
☐ Personal Recommendation ☐ Mail Order Ad  
☐ Other: \_\_\_\_\_

(Specify)

If you answered MAGAZINE AD, MAIL ORDER AD or TRADE SHOW, which magazine, mail order house or trade show?

(Specify)

What TWO (2) software applications do you use most often with your computer?

☐ Word Processing ☐ Statistical  
☐ Spreadsheet ☐ CAD  
☐ Accounting ☐ Graphics  
☐ Desktop Publishing ☐ Programming  
☐ Communications ☐ Database  
☐ Software Development ☐ Data Entry  
☐ Other: \_\_\_\_\_

(Specify)

What model computer will your keyboard be used with?

Will this product replace an existing keyboard?

☐ Yes ☐ No

Will this TrakPro replace an existing pointing device?

☐ Yes ☐ No

If yes, which type (ie. mouse, touchpad, trackball...)

Which computer magazine (if any) do you read most?

Did you specify the purchase of this keyboard?

☐ Yes ☐ No

If you answered NO, what is the title of the person who specified the purchase of this keyboard?

Please make comments on back of card.  
Fold, tape & mail.





NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES



**BUSINESS REPLY MAIL**

FIRST CLASS PERMIT NO. 10053 SPOKANE, WA

POSTAGE WILL BE PAID BY ADDRESSEE



P.O. Box 14687 • Spokane, WA 99214-0687

Attn: Marketing  
MacPro Plus or Trak Pro



Fold

Additional comments — or, if you have a unique application for this product, please tell us about it : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*Notices*

The information contained in the MacPro Plus™ User's Guide is the property of Key Tronic Corporation and may not be copied, photocopied, reproduced, translated or reduced to any electronic medium or machine-readable form without prior written consent from Key Tronic Corporation.

**Trademark Notices**

Apple, the Apple Logo, Macintosh, Mac and Classic are registered trademarks, and Apple Desktop Bus is a trademark of Apple Computer, Inc.

MacPro Plus is a trademark and Key Tronic and Key Tronic Professional Series are registered trademarks of Key Tronic Corporation.

Microsoft and Microsoft Word are registered trademarks of Microsoft Corporation.

**MacPro Plus™ User's Guide**

Part Number: KTC 40163-4

Comments or correspondence regarding the MacPro Plus User's Guide should be directed to:

Key Tronic Corp. Attn: Mktg. Communications  
P.O. Box 14687 Spokane, WA 99214-0687

Copyright © 1990, 1991 by Key Tronic Corporation.  
All rights reserved.

## FCC Notice

---

This equipment generates and uses radio frequency energy and if not installed properly, that is in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type-tested and found to comply with the limits for a Class B computing device in accordance with the specifications in CFR 47, Part 15, Subpart B of the FCC Rules, which are designed to provide reasonable protection against interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the computer with respect to the receiver.
- Move the computer away from the receiver.
- Plug the computer and receiver into a different outlet so that the computer and receiver are on different branch circuits.
- Move the cables connected to the computer to minimize the interference.

## FCC Notice

---

If necessary the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission, helpful:

"How to Identify and Resolve Radio-TV Interference Problems."

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

### **Warning**

Any changes or modifications not expressly approved by the party responsible for compliance, could void the user's authority to operate this equipment.

This equipment is supplied with a shielded cable to meet FCC Class "B" emission limits.

"THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS "B" LIMITS FOR RADIO NOISE EMISSIONS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS."

"LE PRÉSENT APPAREIL NUMÉRIQUE N'ÉMET PAS DE BRUITS RADIOÉLECTRIQUES DÉPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMÉRIQUES DE LA CLASSE "B" PRÉSCRITES DANS LE RÈGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUE ÉDICTÉ PAR LE MINISTÈRE DES COMMUNICATIONS DU CANADA."



## Table of Contents

<b>Section 1</b>	<b>Introduction</b>	
	Keyboard Description .....	1-1
	Features .....	1-3
	User's Guide Overview .....	1-5
<b>Section 2</b>	<b>Installation</b>	
	Preliminary Steps .....	2-1
	Keyboard Installation .....	2-2
	Switching Caps Lock And Ctrl Keys .....	2-5
	Keycap Set Installation .....	2-6
	Using the Hot Key Functions .....	2-8
<b>Section 3</b>	<b>Using the Keyboard</b>	
	Keyboard Organization .....	3-1
	Function Key Area .....	3-2
	LED Panel .....	3-4
	Numeric Keypad .....	3-5
	Cursor Control Keypad .....	3-6
	Typewriter Area .....	3-7
	Keyboard Height Adjustment .....	3-11
	Interchangeable Caps Lock and Ctrl Keys..	3-11
<b>Section 4</b>	<b>Keyboard Maintenance</b>	
	Cleaning the Keyboard .....	4-1
	Keyboard Accessories .....	4-1
	Modifying the Key Feel .....	4-2

## Appendices

<b>Appendix A</b>	<b>Customer Support Information</b>	
	Technical Assistance .....	A-1
	Return for Repair Procedure .....	A-3
	Technical Specifications .....	A-5
	Limited Lifetime Warranty .....	A-6

## Table of Contents

### Section 1 Introduction

Keyboard Description	1-1
1-A Keyboard Description	1-1
1-B Keyboard Description	1-1
1-C Keyboard Description	1-1
1-D Keyboard Description	1-1

### Section 2 Installation

Installation Steps	2-1
Keyboard Installation	2-2
Switching Caps Lock and Ctrl Keys	2-3
Keycap Set Installation	2-4
Cable Set Key Features	2-5

### Section 3 Using the Keyboard

Keyboard Organization	3-1
Typewriter Key Caps	3-2
LED Panel	3-3
Indicator Keypad	3-4
Cursor Control Keypad	3-5
Typewriter Aps	3-6
Keyboard Height Adjustment	3-7
Interchangeable Caps Lock and Ctrl Keys	3-8

### Section 4 Keyboard Maintenance

Cleaning the Keyboard	4-1
Keyboard Accessories	4-2
Modifying the Key Panel	4-3

## Section 1

## INTRODUCTION

Section 1 provides a description and a list of standard features for the Key Tronic Professional Series® MacPro Plus™ keyboard. An overview of the User's Guide is also presented.

### Keyboard Description

The MacPro Plus Professional Series™ keyboard is a 105-key keyboard compatible with any Macintosh® computer that uses an RJ-11 or Apple Desktop Bus™ (ADB) interface. The Mac® Plus, Mac 512 and Mac 128 use the RJ-11 interface. The Macintosh SE, SE/30, II, IIfx, IICx, IICI and IIfx use the ADB interface. The Macintosh LC, IISI and Classic® also use the ADB interface.

The MacPro Plus keyboard layout, designed for optimum efficiency, uses a low profile, ergonomic design, easy-to-read keycaps and a positive, tactile key response that allows for fast and accurate data entry. An enlarged L-shaped Return key and large Delete key make it easy to locate these often used keys.

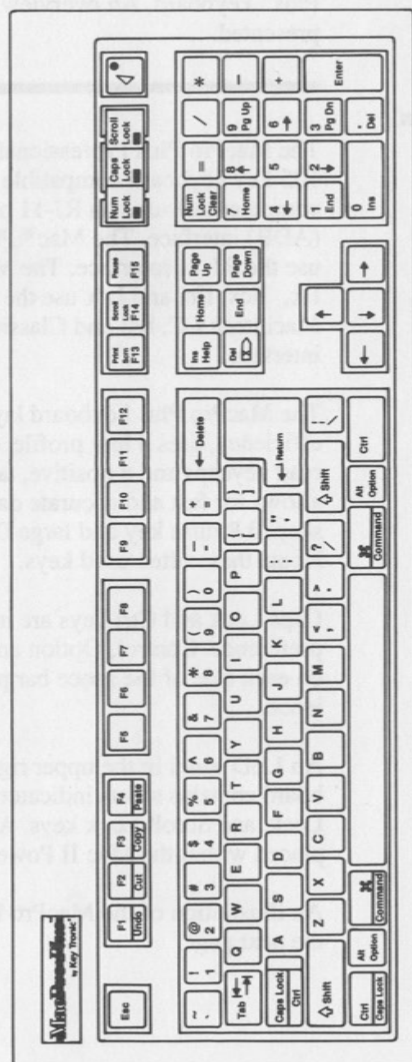
Caps Lock and Ctrl keys are interchangeable to suit user preference. Control, Option and Apple Command keys on each side of the space bar provide additional convenience.

An LED panel in the upper right-hand corner of the keyboard contains status indicators for the Num Lock, Caps Lock, and Scroll Lock keys. An LED indicator is also placed within the Mac II Power On keycap.

An illustration of the MacPro Plus keyboard is shown on the next page.



## Keyboard Description



MacPro Plus Keyboard

## Features

### Standard Layout

The MacPro Plus layout is similar to the Apple® Extended 105-key keyboard. A two color scheme on the keycaps differentiates typing keys from other keys. Dual legends appear on keys that perform commonly used functions when using your Mac in PC emulation.

### Interchangeable Caps Lock and Ctrl Keys

The functions of the Caps Lock and Ctrl keys can be switched to suit user preference or to match the requirements of specific application programs.

### User-Definable Function Keys

The MacPro Plus contains 15 function keys, F1 through F15, that can be assigned keystrokes, commands or mouse sequences using a macro software package.

### Separate Cursor and Numeric Keypads

The MacPro Plus keyboard contains separate numeric and cursor control keypads. The numeric keypad layout matches the layout of Apple's Calculator Desk Accessory, allowing you to enter numbers and numeric symbols easily. The cursor control keypad contains both screen control keys and cursor positioning keys.

### Key Tronic Reliability

Built to the high standards of quality that has made Key Tronic the recognized leader in the keyboard industry, the MacPro Plus is designed for reliability and durability, using keyswitches that are rated at 100 million keystrokes. As a result, the MacPro Plus is confidently backed by a Limited Lifetime Warranty.

## Features

---

### RJ-11 Cable Kit

An RJ-11 cable that allows you to connect the MacPro Plus to the Mac 128, Mac 512 and Mac Plus model computers can be purchased from Key Tronic's Accessories Department at 1-800-262-6006.

### User Modifiable Key Feel

Custom Key Feel Kits enable you to modify the key feel of your MacPro Plus are available through the Accessories For The Mac® catalog included with the keyboard. The MacPro Plus keyboard uses a 2.0 ounce rubber dome. If you prefer a lighter feel, you may obtain a 1.0 ounce rubber dome. For a firmer feel, order a 2.5 or 3.0 ounce rubber dome in your Custom Key Feel Kit.

### Period/Comma Lock

This feature "locks in" the Period and Comma keys allowing you to obtain these symbols when typing uppercase letters with either shift key. The Period/Comma lock eliminates inadvertent typos when entering successive uppercase letters that contain either periods or commas.

## User's Guide Overview

---

This User's Guide provides you with detailed information on installing and using your MacPro Plus keyboard. After the keyboard is installed and you are familiar with its operation, keep the User's Guide as a reference for technical and customer support information.

An overview of the User's Guide is given below.

**Section 2, Installation,** provides a checklist of items included with the MacPro Plus keyboard and gives step-by-step instructions for installing the keyboard and interchanging the Caps Lock and Ctrl keys.

**Section 3, Using the Keyboard,** helps you become familiar with the keyboard layout and special function keys. Each major area of the keyboard is described.

**Section 4, Keyboard Maintenance,** describes how to clean the keyboard and purchase keyboard enhancement and protection accessories. This section also describes how to change the key feel with a Custom Key Feel Kit.

**Appendix A, Customer Support Information,** describes how to obtain technical assistance and return keyboards for repair. The Key Tronic Limited Lifetime Warranty and technical specifications are also listed.



## Section 2

## INSTALLATION

Section 2 provides a check list of items included with the MacPro Plus™ keyboard and gives step-by-step installation instructions. This section also describes how to switch the functions of the Caps Lock and Ctrl Keys.

### Preliminary Steps

Ensure that your keyboard box contains the following:

- The MacPro Plus Keyboard
- An ADB Connecting Cable
- The MacPro Plus User's Guide with Registration Card
- The Accessories For The Mac® Catalog
- Keycap Set (Ctrl and Caps Lock keys)

Notify your dealer immediately if any items are missing or damaged. See Appendix A for detailed Customer Support Information.

Please keep the keyboard box for reuse in case you need to return your keyboard for service. The foam end caps are custom designed to protect and secure the keyboard during shipment.

Please complete the MacPro Plus registration card and return it to Key Tronic. This registration card enables Key Tronic to keep you informed of product upgrades and enhancements.

## Keyboard Installation

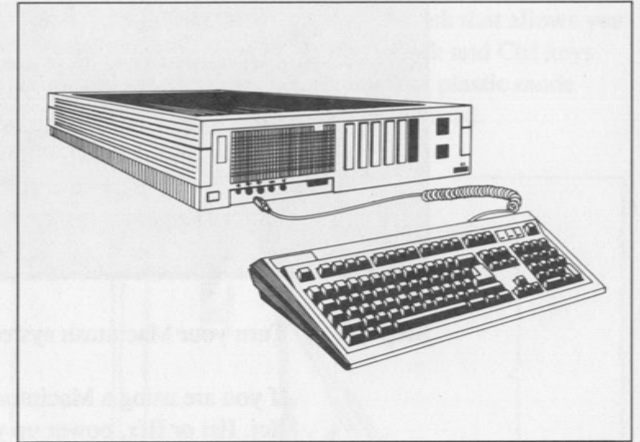
The MacPro Plus keyboard is compatible with any Macintosh® computer that uses the RJ-11 or Apple Desktop Bus™ (ADB) interface.

**Note:** If you are connecting the MacPro Plus to Macintosh computers that use the RJ-11 interface, use the RJ-11 cable from your existing keyboard. If you need a new RJ-11 cable, you may purchase one through Key Tronic's Accessory Department.

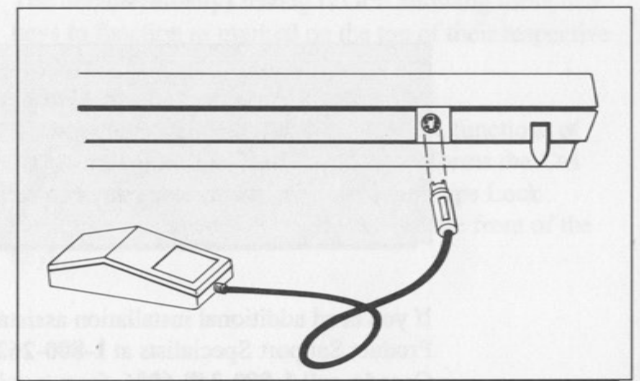
Follow these steps to install the MacPro Plus keyboard with computers that use the ADB interface:

- Step 1.** Turn OFF your computer before installing the MacPro Plus keyboard.
- Step 2.** Insert the keyboard cable connector into one of the two ADB ports on the back panel of the computer as shown on the next page.

## Keyboard Installation



- Step 3.** Plug the mouse or other ADB device into the second ADB connector on the back edge of the keyboard as shown below.





## Keyboard Installation

**Note:** As an option, you can connect the mouse directly to the ADB port on the rear panel of the computer. If, in the future, you add a trackball or other ADB device to your system, you can connect it to the second ADB connector on the keyboard.

### Step 4. Turn your Macintosh system unit ON.

If you are using a Macintosh II, IIx, IICx, IICI, IISI or IIIfx, power up your Mac simply by pressing the Mac II Power On key. The Mac II Power On key is located immediately to the right of the LED panel.

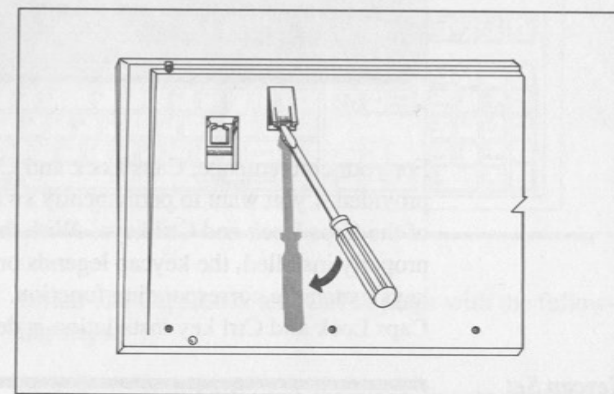
The Mac II Power On key does not function with the SE, SE/30, Macintosh LC or Mac® Classic®. It also does not work with Macintosh computers that use the RJ-11 interface.

**Note:** Anytime you add ADB devices or rearrange the devices on the Apple Desktop Bus, be sure to turn your computer off before making any connections.

If you need additional installation assistance, call our Product Support Specialists at **1-800-262-6006**. From Canada, call **1-800-348-6006**. from outside the continental USA or Canada, call **(509) 927-5515**.

## Switching Caps Lock and Ctrl Keys

The MacPro Plus contains a mode switch that allows you to switch the functions of the Caps Lock and Ctrl keys. To access the mode switch, remove the plastic mode switch cover on the bottom of the keyboard.



Mode switch #1 is used to switch the functions of the Caps Lock and Ctrl keys on the left side of the keyboard. The default (factory) setting is OFF allowing these two keys to function as marked on the top of their respective keycaps.

Setting mode switch #1 to ON swaps the functions of these two keys. The Caps Lock key performs the Ctrl function and the Ctrl key performs the Caps Lock function as indicated by the legends on the front of the keys.

## Switching Caps Lock And Ctrl Keys

**Note:** Interchanging the Caps Lock and Ctrl keys with mode switch #1 retains this setting upon power down. To switch the functions back to the default setting, power OFF your computer and set mode switch #1 to OFF.

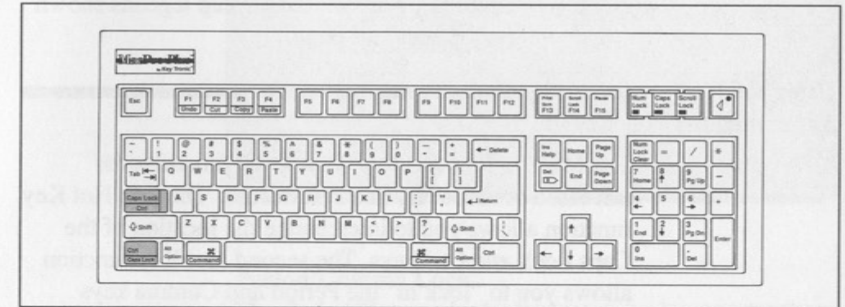
For your convenience, Caps Lock and Ctrl keycaps are provided if you want to permanently swap the functions of the Caps Lock and Ctrl keys. With these keycaps properly installed, the keycap legends on the top of the keys match the corresponding function. Instructions for Caps Lock and Ctrl key installation is described below.

## Keycap Set Installation

To install the Caps Lock and Ctrl keys provided with the MacPro Plus keyboard, refer to the illustration on the following page to see which keys are changed.

**Note:** Store the keycaps you remove in a secure place so you can re-install them if you wish to turn mode switch #1 back to OFF and use the Caps Lock and Ctrl functions in the original setting.

## Keycap Set Installation



Install the Caps Lock and Ctrl keycaps with the following steps:

- Step 1.** Turn OFF your computer. Ensure mode switch #1 is turned to ON as described in the previous section.
- Step 2.** Referring to the illustration above, remove the appropriate keycaps by placing two flat-bladed screwdrivers on each side of the keycap and prying up gently.
- Step 3.** Remove the keycap from its holder, leaving the rubber dome centered over the keycap holder. Store the keycap for future use.
- Step 4.** Place the new keycap over the rubber dome and keycap holder and firmly press down until the keycap is fully seated.



## Keycap Set Installation

- Step 5.** Power up your computer system. The functions performed when pressing a key should now match the keycap legends shown on the previous page.

## Using the Hot Key Functions

The MacPro Plus has two "Hot Key" functions for increased productivity and ease-of-use. The first Hot Key function allows you to interchange the location of the Caps Lock and Ctrl keys. The second Hot Key function allows you to "lock in" the Period and Comma keys when using either Shift key.

### Switching Caps Lock and Ctrl Keys

You may want to interchange the functions of Caps Lock and Ctrl keys during your work session to match the requirements of specific application programs. To temporarily switch the functions of the two keys, you do not have to change the mode switch settings.

The MacPro Plus keyboard has a "hot key" sequence (right Ctrl-Caps Lock) that lets you quickly switch the functions of the Caps Lock and Ctrl keys. Simply press and hold the right Ctrl key, then press the Caps Lock key. The Caps Lock status indicator located in the LED panel will flash three times to indicate a successful "hot key" switch. With this hot-key combination, the Caps Lock key performs the Ctrl function and the Ctrl key performs the Caps Lock function as indicated on the front of the keys.

To return to the default setting which allows the two keys to function as marked on the top of their respective keycaps, press the right Ctrl-Caps Lock hot key combination.

## Using the Hot Key Functions

**Note:** If you have switched the functions of the Caps Lock and Ctrl keys with the hot key, these functions will remain in keyboard memory until you power off your computer. The keyboard will automatically revert to the default switch setting upon power up.

### Period/Comma Lock

The Period/Comma lock eliminates typing greater than (>), or less than (<) symbols when entering successive uppercase letters that contain periods and commas.

The MacPro Plus is placed in Period/Comma lock mode by pressing and holding down the right Ctrl key and then pressing the Period or Comma key. The Scroll Lock LED will flash three times, indicating a successful mode switch. When in this mode you have effectively "locked out" the greater than (>) and less than (<) symbols, allowing you to enter periods and commas while pressing either Shift key.

To return to the regular default setting, press the right Ctrl, and the Period or Comma key. The Scroll Lock LED will flash three times to indicate the keyboard is back in normal mode.

## Section 3

## USING THE KEYBOARD

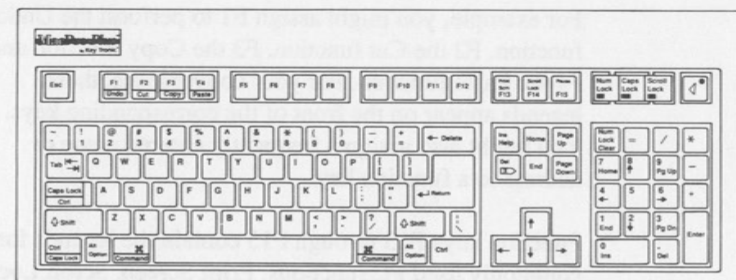
Section 3 identifies the major keyboard areas. A description of each area is given and the function of each special, non-character key is explained.

Not all application programs use keyboard keys in the same way. Common functions are described here. Refer to the Macintosh® Owner's Guide or Macintosh System Software User's Guide supplied with your Macintosh computer or to your application program manual for additional information on specific key functions.

### Keyboard Organization

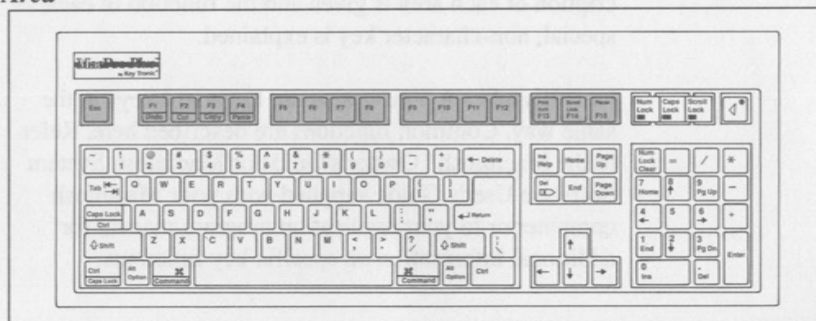
The MacPro Plus™ keyboard is divided into five areas:

- Function Key Area
- LED Panel
- Numeric Keypad
- Cursor Control Keypad
- Typewriter Area



MacPro Plus Keyboard Layout

## Function Key Area



The MacPro Plus has fifteen user-definable function keys, F1 through F15, located across the top of the keyboard for easy access.

Generally, the function keys do not send a command or character when pressed unless supported by the application program. However, with a macro package, you can assign the function keys (or any key), commands, character strings or even mouse movement and button clicks.

For example, you might assign F1 to perform the Undo function, F2 the Cut function, F3 the Copy function and F4 the Paste function. For your convenience, these legends appear on the front of the corresponding keys. You might also assign a frequently entered name or address to a function key.

Function keys F13 through F15 contain the legends for commonly used PC functions: Print Screen, Scroll Lock and Pause. If you use your Macintosh in PC emulation mode, these function keys will send the PC function if supported by the application. Refer to your PC application program user's guide for additional information on these keys.

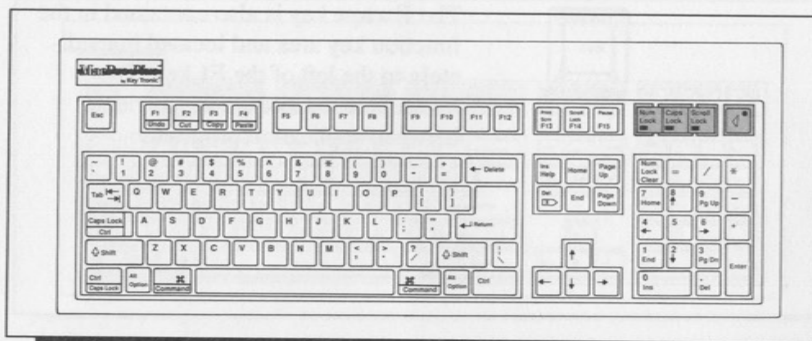
## Function Key Area



The **Escape** key is also contained in the function key area and located immediately to the left of the F1 key. The function of the Escape key varies between application programs.



## LED Panel



The LED panel contains status indicator lights for the Num Lock, Caps Lock and Scroll Lock functions. The Num Lock and Scroll Lock LEDs do not function with most Macintosh application programs. However, future applications may utilize these LEDs.

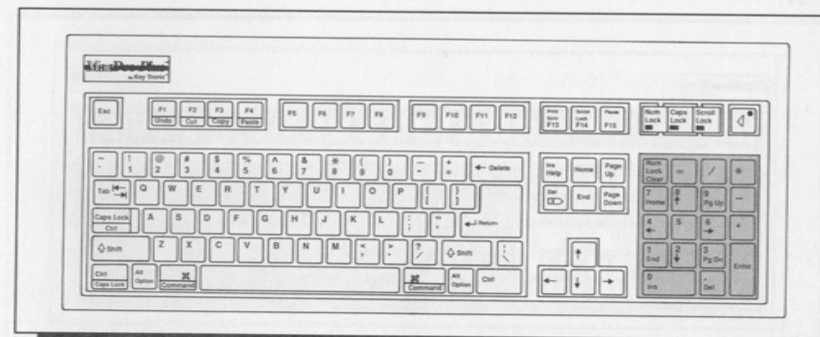
**Note:** If using your Macintosh® in PC emulation mode, the Num Lock and Scroll Lock LEDs are functional if supported by the application program.



The Mac® II **Power On** key is located to the right of the LED panel and allows you to "power on" your Macintosh II, IIfx, IIfx, IIfx, IIfx or IIfx computer. The LED contained in the keycap will illuminate whenever the system is on.

The Mac II Power On key does not function with the Mac Plus, Mac 512, Mac 128, Macintosh SE, SE/30 or Classic.

## Numeric Keypad

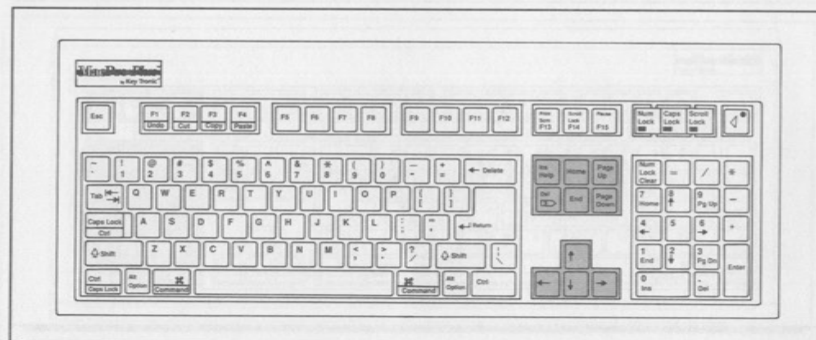


The numeric keypad provides a quick, easy way to enter numeric values while still having a separate cursor control keypad for cursor positioning. The numeric keypad provides all common math functions, (+, /, \*, - and =), an Enter key and Clear key.

The actual layout of the numeric keypad matches the layout of Apple's Calculator Desk Accessory, making numeric input easier and faster.

Some applications programs like Microsoft Word®, allow you to switch the numeric keypad between numbers mode and cursor mode by pressing the Num Lock key in the upper left-hand corner of the numeric keypad. This does not cause the Num Lock LED to illuminate but will place "Num Lock" in the lower left-hand corner of the screen indicating the numeric keypad will represent numbers instead of cursor functions.

## Cursor Control Keypad



The MacPro Plus keyboard features a separate cursor control keypad. This keypad, active during all modes of keyboard operation, is especially convenient when entering numbers with the numeric keypad.

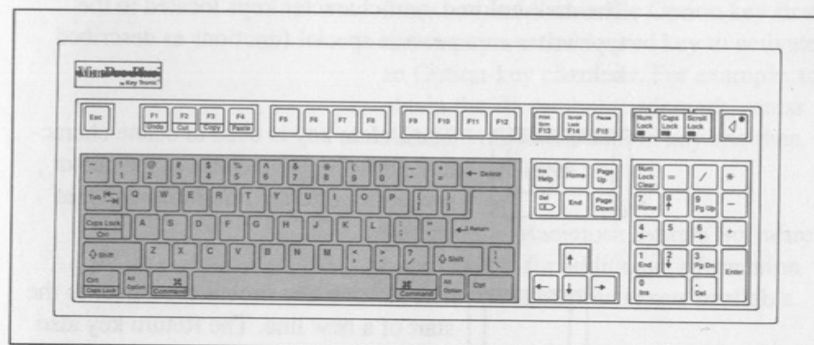
The cursor control keypad contains two groups of keys:

- Page Control keys (top group)
- T-style Cursor Pad keys (bottom group)

The Page Control keys contain document control and editing keys: **Help**, **Forward Delete**, **Home**, **End**, **Page Up** and **Page Down**. The functions of these keys vary between applications. For example, pressing the Help key twice in Microsoft Word displays a help screen, while in other applications this key may be inactive.

The T-style Cursor Pad contains cursor movement keys (arrow keys). The arrow keys allow you to move the cursor around in word processing or spreadsheet application programs.

## Typewriter Area



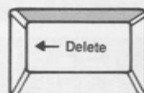
The typewriter area contains standard alphabetic and numeric keys, punctuation keys and a number of special symbols (@, #, ^, I). The "F" and "J" keys contain an "orientation ridge" allowing touch typists to easily detect the home row starting position.

The typewriter area contains light- and dark-colored keycaps to differentiate typing keys from non-typing keys. All the light-colored character keys in the typewriter area are "typematic"; repeating as long as you hold them down.

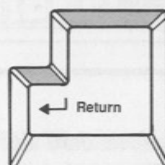
**Note:** If you are used to typing on a typewriter, you may have used a lowercase letter "l" or uppercase letter "I" for the number one. Similarly, you may have used an uppercase letter "O" for the number zero. Because the keyboard sends unique scan codes for each key on the keyboard, the above substitutions can create unpredictable results. **Always use numeric keys for one and zero.**

## Typewriter Area

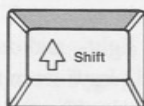
The dark-colored, non-character keys located in the typewriter area provide special functions as described below.



The **Delete** key is used to delete characters. Pressing Delete moves the cursor one position to the left, removing that character.



The **Return** key moves the cursor to the start of a new line. The Return key also performs "Enter" functions, instructing the computer to perform a specific command. For example, in a Macintosh dialog box select "OK" or any outlined button by pressing the Return key instead of using the mouse.



Use either of the two **Shift** keys to enter uppercase letters or to enter the symbol or character shown in the upper position on the keycap. The Shift key can also be used in the Finder to select multiple files or folders.



The **Option** key can be used in combination with other keys to obtain different characters or key functions. Use Apple's Key Caps Desk Accessory to view the different characters available.

## Typewriter Area

Press and hold down the Option key first and then press the desired key to activate an Option-key character. For example, to obtain the <sup>TM</sup> symbol (trademark), press and hold down the Option key and then press the "2" key.

Refer to the Macintosh System Software User's Guide for additional information on the optional character sets available.



The **Command** key is used with another key or combination of keys to provide a keyboard alternative to selecting commands with the mouse from a pull-down menu.

Commands issued from the keyboard using the Command key are identified in the pull-down menu. For example, in most application programs a Command-X performs the Cut function and a Command-V performs the Paste function.

**Note:** The Command key is sometimes referred to as the "Apple" key or "Apple Command" key.



## Typewriter Area



The **Caps Lock** key enables and disables the capital letters function. The Caps Lock LED in the LED panel indicates whether the Caps Lock function is active or inactive.

The Caps Lock function only affects the letter keys. Numbers and symbols are not affected. Use the Shift key to type a symbol shown on the upper portion of non-letter keys.

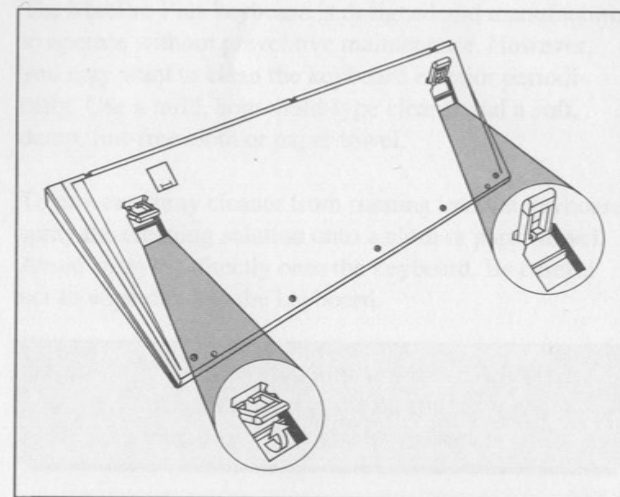


The **Tab** key moves the cursor to the right, to the next tab stop. In some applications, a Shift-Tab combination moves the cursor left, to the previous tab setting.

In dialog boxes, pressing the Tab key advances the cursor to the next input field.

## Keyboard Height Adjustment

The MacPro Plus keyboard can be adjusted to two different positions, level and tilted, by positioning the adjustable legs on the bottom of the keyboard. To tilt the keyboard, simply lift the keyboard legs up, snapping them into their self-locking position as illustrated below.



## Interchangeable Caps Lock and Ctrl Keys

The functions of the Caps Lock and Ctrl keys can be switched to suit user preference or match the requirements of specific application programs. Refer to Section 2, Installation, for instructions on how to switch the functions of these two keys.

## Section 4

## KEYBOARD MAINTENANCE

Section 4 describes how to clean the MacPro Plus™ keyboard and how to purchase keyboard protection accessories. This section also describes how to change the key feel with a Custom Key Feel Kit.

### *Cleaning the Keyboard*

The MacPro Plus keyboard is designed and manufactured to operate without preventive maintenance. However, you may want to clean the keyboard exterior periodically. Use a mild, household-type cleaner and a soft, damp, lint-free cloth or paper towel.

To prevent spray cleaner from running into the keyboard, spray the cleaning solution onto a cloth or paper towel. Avoid spraying directly onto the keyboard. Be careful not to wipe dirt into the keyboard.

**Note:** Do not use a petroleum-based solvent, as this will damage the plastic keyboard enclosure and painted surfaces.

### *Keyboard Accessories*

Keyboard protection items such as dust covers, anti-static mats, and mini vacs, can be purchased through the Accessories For The Mac® Catalog included in the keyboard box. The catalog contains order forms and information on a number of accessories to enhance and protect your keyboard and Macintosh computer.

### **Modifying the Key Feel**

While Key Tronic prides itself on its keyswitch technology that provides a consistent, positive tactile response, some users may prefer the key feel or touch to be slightly firmer or lighter.

Key Tronic offers a "Custom Key Feel Kit" allowing you to modify the key feel by changing the rubber domes in your keyboard. (Rubber domes are located underneath the keycaps and control the responsiveness of a key.)

Your MacPro Plus keyboard is equipped with 2.0-ounce rubber domes from the factory, but can be changed to 1.0, 2.5 or 3.0-ounce rubber domes through a Custom Key Feel Kit.

The 1.0-ounce rubber dome kit provides a lighter feel, and the 2.5 or 3.0-ounce kits provide a firmer feel. The kit includes enough rubber domes (75) to modify the feel for all the white keys on the keyboard (with the exception of the space bar), a keycap removal tool and installation instructions.

Refer to the Accessories For The Mac Catalog for ordering and pricing information.

## **Appendix A CUSTOMER SUPPORT INFORMATION**

The Customer Support Information Appendix includes the following information:

- How to Obtain Technical Assistance
- Instructions on Returning Keyboards for Repair
- Technical Specifications
- The MacPro Plus™ Limited Lifetime Warranty

### **Technical Assistance**

Key Tronic makes every attempt to ensure you have purchased a keyboard of unsurpassed quality. Key Tronic Professional Series keyboards undergo rigorous testing and are rated at 100 million keystrokes. The MacPro Plus User's Guide is written and designed to provide you with complete, accurate and easy-to-understand instructions on using your keyboard. We encourage you to use this User's Guide as your primary source of information about the keyboard.

For additional support, Key Tronic Product Support Specialists are available to assist you from 7:00 AM through 3:00 PM PST, Monday through Thursday and from 7:00 AM through 12:00 Noon PST on Friday. Their telephone number is listed below.

**Key Tronic Product Support**  
**1-800-262-6006 (U.S.) Toll free**  
**1-800-348-6006 (In Canada) Toll free**  
**(509) 927-5515 (outside USA or Canada)**



### Technical Assistance

European customers needing technical assistance or encountering keyboard problems should contact an authorized Key Tronic Distributor. The dealer you purchased your keyboard from can provide you with the name and address of the Key Tronic Distributor nearest you.

Your Key Tronic Distributor will contact a Customer Service Representative from Key Tronic who will determine whether a keyboard needs to be returned to Key Tronic for repair. Upon authorization of return, your distributor will give you shipping instructions.

### Return for Repair Procedure

If a keyboard proves defective, you may return it to Key Tronic for repair. To qualify for "in-warranty repair", proof-of-date-of-purchase must be included with the returned keyboard.

Before returning the keyboard, contact Key Tronic Product Support to make sure that the problem cannot be solved over the telephone.

The following steps explain the procedures for returning your keyboard:

- Step 1.** Call Key Tronic Product Support for a Return Authorization (RA) number. The Product Support Specialist will obtain your name, address and phone number, the keyboard model and serial number, and a description of the problem. The address of the nearest repair center will be given to you.
- Step 2.** Carefully pack the keyboard in its original shipping container if possible. If the original container is not available, wrap the keyboard in non-static material such as newspaper and pack it in a sturdy cardboard box. Please be sure the RA number is visible on the shipping label.

**Note:** To qualify for "in-warranty" repair service on your keyboard, a copy of the sales receipt or invoice showing the date purchased must accompany the keyboard.

### Return for Repair Procedure

- Step 3.** Keyboards returned to Key Tronic for repair must be shipped prepaid. It is recommended that the keyboard be insured when shipped.

**Note:** Key Tronic will not accept units without a Return Authorization Number posted on the outside of the shipping carton.

Keyboards repaired under warranty will be returned by prepaid UPS or equivalent service.

For "out-of-warranty" keyboards, follow the steps listed above. Repairs will be made at your expense. Normal turn-around is 10 working days on prepaid returns, subject to availability of parts. Keyboards will be returned to you at your expense by UPS or equivalent service unless otherwise specified or requested.

### Technical Specifications

The MacPro Plus keyboard has the following technical specifications:

#### Electrical Data:

Max. input power	85 mA max. @ +5 Vdc
Rollover	N-key rollover (NKRO)

#### Mechanical Data:

Key total travel	0.150 in. (3.81 mm)
Key activating force	2.0 oz. (55 grams)
Switch reliability	100 million MCBF

#### Environmental Data:

Operating temp.	0 to 55 degrees C
Non-operating temp.	-40 to 70 degrees C
Relative humidity	20% to 95%
Altitude	-1,000 ft. to +12,000 ft.

#### Dimensions:

Weight	4 lbs, 4 oz (2 kg)
Height	
Legs retracted	1.66" (4.2 cm)
Legs extended	2.25" (5.7 cm)
Length	19" (48.2 cm)
Depth	8.1" (20.5 cm)

**Limited  
Lifetime  
Warranty**

Key Tronic Corporation warrants to the Original Purchaser that this product will be free from defects in materials and workmanship for as long as it is owned by the Original Purchaser. This warranty is limited to such Purchaser and is not transferable.

During the warranty period, Key Tronic will repair or replace, at its option, any defective products or parts at no additional charge, provided that the product is returned by the Original Purchaser, shipping prepaid, to Key Tronic, an authorized dealer or an authorized service location. The Original Purchaser is responsible for insuring any returned product and assumes the risk of loss during shipping. All replaced parts and products become the property of Key Tronic.

Proof-of-purchase, name and signature of the Original Purchaser must be provided by the Original Purchaser when requesting that warranty work be performed. The Original Purchaser may request information on how to obtain warranty service by contacting an authorized dealer or writing to Key Tronic, P.O. Box 14687, Spokane, WA, 99214, U.S.A. or by calling **1-800-262-6006**, or, in Canada, **1-800-348-6006**. If calling from outside the continental U.S.A., call Spokane, Washington, U.S.A., **(509) 927-5515**.

This Limited Lifetime Warranty does not extend to any products which have been damaged as a result of accident, misuse, abuse, or as a result of service or modification by anyone other than Key Tronic, an authorized dealer or an authorized service location. This limited warranty does not extend to the use of this product with any equipment other than the equipment for which it is designed.

**Limited  
Lifetime  
Warranty**

Return of the fully completed and signed warranty card included with these materials is a condition precedent to receiving the limited warranty set herein. Receipt of any remedy provided in this Limited Lifetime Warranty is subject to Key Tronic's confirmation that the remedy(ies) hereunder are sought by their Original Purchaser.

EXCEPT AS EXPRESSLY SET FORTH ABOVE, NO OTHER WARRANTIES ARE EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. KEY TRONIC EXPRESSLY DISCLAIMS ALL EXPRESSED OR IMPLIED WARRANTIES NOT STATED HEREIN. IN THE EVENT THE PRODUCT IS NOT FREE FROM DEFECTS AS WARRANTED ABOVE, THE PURCHASER'S SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. UNDER NO CIRCUMSTANCES WILL KEY TRONIC BE LIABLE TO THE PURCHASER OR ANY USER FOR ANY DAMAGES, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXPENSES, LOST PROFITS, LOST SAVINGS, OR OTHER DAMAGES ARISING OUT OF THE USE OF, OR INABILITY TO USE, THE PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages for consumer products, and some states do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This Limited Lifetime Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



1. Product Description: This product is designed to provide a comprehensive overview of the company's services and products. It is intended for use by customers who are interested in learning more about our offerings.

2. Features and Benefits: The product includes a range of features and benefits that are designed to meet the needs of our customers. These include a comprehensive overview of our services, a detailed description of our products, and a range of other information that is relevant to our customers.

3. Usage Instructions: The product is designed to be used by customers who are interested in learning more about our services and products. It is intended to be used as a reference tool, and it is not intended to be used as a substitute for our services or products.

4. Contact Information: If you have any questions or need further information, please contact our customer support team. We are available 24/7 to assist you with any inquiries.

5. Disclaimer: This product is provided as a service to our customers. It is not intended to be used as a substitute for our services or products. We are not responsible for any damages or losses that may result from the use of this product.

PROFESSIONAL SERIES

# MACPRO PLUS<sup>TM</sup> USER'S GUIDE



 **Key Tronic<sup>®</sup>**

P.O. Box 14687  
Spokane, WA 99214-0687

Scanned by Mac84

 **Key Tronic<sup>®</sup>**